

CLAIMS

1. A method for preparing a cultured mammalian cell extract liquid, comprising at least the step of rapidly freezing
5 a cultured mammalian cell suspended in a solution for extraction.
2. The preparation method according to claim 1, further comprising the step of thawing the cultured mammalian cell after rapid freezing, and subjecting the cell to centrifugation.
3. The preparation method according to claim 1 or 2,
10 wherein the cultured mammalian cell is rapidly frozen with liquid nitrogen.
4. The preparation method according to claim 2 or 3, wherein the cultured mammalian cell rapidly frozen is thawed in a water bath or ice-water bath at -10°C - 20°C.
- 15 5. The preparation method according to any one of claims 1 to 4, wherein the solution for extraction contains a protease inhibitor.
6. The preparation method according to any one of claims 1 to 5, wherein the cultured mammalian cell is a cultured cell
20 derived from lymphoma.
7. The preparation method according to any one of claims 1 to 5, wherein the cultured mammalian cell is a cultured cell derived from a gonad.
8. The preparation method according to claim 7, wherein
25 the cultured mammalian cell is a cultured cell derived from

Chinese hamster ovary (CHO).

9. The preparation method according to claim 8, wherein the Chinese hamster ovary (CHO) is derived from CHO K1-SFM.

10. A cultured mammalian cell extract liquid, which is
5 prepared by the method according to any one of claims 1 to 9.

11. A method for cell-free protein synthesis, comprising use of the cultured mammalian cell extract liquid according to claim 10.

12. The method for cell-free protein synthesis according
10 to claim 11, comprising the steps of;

effecting incubation of a reaction liquid for cell-free protein synthesis containing components other than an exogenous mRNA, and then

15 adding an exogenous mRNA into the reaction liquid to conduct synthetic reaction.

13. The method for cell-free protein synthesis according to claim 12, wherein the incubation is carried out at 0°C to 50°C.